

# List of All Chemicals

## **P** Acacia leucophloea (Fabaceae)

Common name(s)

Pilang Bast

How used

GRAS

\*Unless otherwise noted all references are to Duke, James A. 1992. Handbook of phytochemical constituents of GRAS herbs and other economic plants. Boca Raton, FL. CRC Press.

| Chemical                         | Plant Part   | Low PPM | High PPM | StdDev | *Reference |
|----------------------------------|--|---------|----------|--------|------------|
| BETA-AMYRIN                      | Plant  | --      | --       |        | *          |
| <b>Activities (9)</b>            |  |         |          |        |            |
| Analgesic                        |  |         |          |        |            |
| Antiedemic IC27=40 mg/kg ipr rat |  |         |          |        |            |
| Antiinflammatory                 |  |         |          |        |            |
| Antinociceptive                  |  |         |          |        |            |
| Antiulcer                        |  |         |          |        |            |
| Gastroprotective                 |  |         |          |        |            |
| Hepatoprotective                 |  |         |          |        |            |
| Larvicide                        |  |         |          |        |            |
| Mosquitocide                     |  |         |          |        |            |
| BETULINIC-ACID-3-O-MALTOSE       | Plant  | --      | --       |        | *          |
| GLYCOSIDE                        | Plant  | --      | --       |        | *          |
| HCN                              | Plant  | --      | --       |        | *          |
| <b>Activities (9)</b>            |  |         |          |        |            |
| Antiasthmatic                    | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.  |         |          |        |            |
| Antidote Ihl (=Amyl Nitrite)     | Martindale's 29th  |         |          |        |            |
| Antitussive                      | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.  |         |          |        |            |
| Bronchosedative                  | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.  |         |          |        |            |
| Insecticide                      | Jacobson, M., Glossary of Plant-Derived Insect Deterrents, CRC Press, Inc., Boca Raton, FL, 213 p, 1990.   |         |          |        |            |
| Pesticide                        |  |         |          |        |            |
| Respirastimulant                 | Huang, K. C. 1993. The Pharmacology of Chinese Herbs. CRC Press, Boca Raton, FL 388 pp.  |         |          |        |            |
| Rodenticide                      | Martindale's 29th  |         |          |        |            |
| Vasomotor-Stimulant              |  |         |          |        |            |
| LEUCOPHLEOL                      | Plant  | --      | --       |        | *          |
| LEUCOPHLEOXOL                    | Plant  | --      | --       |        | *          |
| LEUCOXOL                         | Plant  | --      | --       |        | *          |
| MYRICETIN                        | Plant  | --      | --       |        | *          |
| <b>Activities (34)</b>           |  |         |          |        |            |
| Allelochemic IC82=1 mM           | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |         |          |        |            |
| AntiHIV                          |  |         |          |        |            |
| Antiallergenic                   |  |         |          |        |            |
| Antibacterial MIC=20-500 ug/ml   |  |         |          |        |            |
| Antifeedant IC52=<1,000 ppm diet | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |         |          |        |            |
| Antigastric                      |  |         |          |        |            |
| Antingivitic MIC=20 ug/ml        |  |         |          |        |            |
| Antigonadotrophic                | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.   |         |          |        |            |
| Antihistaminic                   |  |         |          |        |            |
| Antiinflammatory                 | Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)   |         |          |        |            |
| Antimutagenic ID50=2-5 nM        | Phenolic Compounds in Food and Their Effects on Health. Antioxidants & Cancer Prevention. Huang, M.T., Ho, C.T. and Lee, C.Y. eds. 1992. ACS Symposium Series 507.ACS, Washington 402 pp.  |         |          |        |            |

|  |  |
|--|--|
| Antioxidant 1.4 uM                         |  |
| Antioxidant IC50=3.9 ug/ml                 |  |
| Antiperiodontic MIC=20 ug/ml               |  |
| Anti plaque MIC=20 ug/ml                   |  |
| Antiseptic MIC=20 ug/ml                    |  |
| Antiviral                                  |  |
| Apoptotic 60 uM                            |  |
| COMP-Inhibitor                             | Dullo, A. G., et al. 1999. Efficacy of a green tea extract rich in catechin polyphenols and caffeine in increasing 24-h energy expenditure and fat oxidation in humans. <i>Am. J. Clinical Nutrition</i> , 70: 1040-1045.                  |
| Cancer-Preventive                          | Stitt, P. A. Why George Should Eat Broccoli. Dougherty Co, Milwaukee, WI, 1990, 399 pp.  |
| Candidicide MIC=150 ug/ml                  | Planta Medica, 57: A43, 1991.  |
| Diuretic                                   | Oriental Materia Medica (three volumes by Dr. Hsu and collaborators)   |
| Hypoglycemic                               | Economic & Medicinal Plant Research, 6: 170.   |
| Larvostat IC50=2.6-3.5 mM/kg diet          | Lydon, J. & Duke, S., The potential of pesticides from plants, pp. 1-41 in Craker, L. & Simon, J., eds, Herbs, Spices & Medicinal Plants: Recent Advances in Botany, Horticulture, & Pharmacology, v. 4, Oryx Press, Phoenix, 1989, 267pp. |
| Lipoxygenase-Inhibitor                     | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.   |
| Mutagenic                                  | Nigg, H.N. and Seigler, D.S., eds. 1992. Phytochemical Resources for Medicine and Agriculture. Plenum Press, New York. 445 pp.   |
| Oxidase-Inhibitor                          | Jeffery B. Harborne and H. Baxter, eds. 1983. Phytochemical Dictionary. A Handbook of Bioactive Compounds from Plants. Taylor & Frost, London. 791 pp.   |
| Pesticide                                  |  |
| Quinone-Reductase-Inducer 36 uM            | Uda, Y., Price, K. R., Williamson, G., Rhodes, M. J. C. 1997. Induction of the Anticarcinogenic Marker Enzyme, Quinone Reductase, in Murine Hepatoma Cells In Vitro by Flavonoids. <i>Cancer Lett.</i> , 120 (2): 213-216.                 |
| Topoisomerase-I-Inhibitor IC50=11.9 ug/ml  |  |
| Topoisomerase-II-Inhibitor IC50=11.9 ug/ml |  |
| Tyrosine-Kinase-Inhibitor                  | Economic & Medicinal Plant Research, 6: 170.   |
| Vasodilator                                |  |

|               |       |    |    |   |
|---------------|-------|----|----|---|
| N-OCTACOSANOL | Plant | -- | -- | * |
| TANNIN        | Plant | -- | -- | * |

**Activities (35)**

|                                     |  |
|-------------------------------------|--|
| Anthelmintic                        |  |
| AntiHIV                             |  |
| Antibacterial                       |  |
| Anticancer                          |  |
| Anticariogenic                      |  |
| Antidiarrheic                       |  |
| Antidysenteric                      |  |
| Antihepatotoxic                     |  |
| Antihypertensive                    |  |
| Antilipolytic                       |  |
| Antimutagenic                       |  |
| Antinephritic                       | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. |
| Antiphidic                          | Economic & Medicinal Plant Research, 5: 363.   |
| Antioxidant IC50=1.44 ug/ml         |  |
| Antioxidant 1/3 quercetin           |  |
| Antiradicular 500 mg/kg/day orl mus | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. |
| Antiradicular 1/3 quercetin         |  |
| Antirenitic                         | Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. <i>Chem. Pharm. Bull.</i> 38(4): 1049-1052, 1990. |
| Antitumor                           |  |
| Antitumor-Promoter                  |  |
| Antiulcer                           |  |
| Antiviral                           |  |
| Cancer-Preventive                   | HerbalGram No. 22 - Spring 1990, page 14.  |
| Carcinogenic                        |  |
| Chelator                            |  |
| Cyclooxygenase-Inhibitor            |  |
| Glucosyl-Transferase-Inhibitor      |  |
| Hepatoprotective                    |  |
| Immunosuppressant                   |  |

Inhibitor

MAO-Inhibitor

Ornithine-  
Decarboxylase-  
Inhibitor

Pesticide

Psychotropic

Uchida, U., Ohta, H., Niwa, M., Mori, A., Nonaka, G-i., Nishioka, I., and Zaki, M. 1989. Prolongation of Life Span of Stroke-Prone Spontaneously Hypertensive Rats (SHRSP) Ingesting Persimmon Tannin. Chem. Pharm. Bull. 38(4): 1049-1052, 1990.

Xanthine-Oxidase-  
Inhibitor